

FEB 28 2007

Amendments to the Claims

This listing of claims will replace all prior versions and listing of claims in this application.

Listing of claims:

1. (Currently Amended) A heat-seal polymer film comprising a layer of film wherein said film consists essentially of ~~formed from a~~ metallocene catalyzed, isotactic ethylene-propylene copolymer having a random comonomer distribution, the ethylene present in the ethylene-propylene copolymer is in an amount of from 1% to 15% by weight wherein the ~~film~~ ethylene-propylene copolymer has a seal initiation temperature of 80°C to 125°C defined at a seal strength of 200 g/inch.

2.-5. (Canceled).

6. (Original) The heat-seal polymer film of claim 1, wherein the film has less than 3% haze.

7. (Original) The heat-seal polymer film of claim 1, wherein the film has greater than 85% gloss at a 45° incident angle.

8. (Original) The heat-seal polymer film of claim 1, wherein the random copolymer has a xylene solubles content of less than 5% by weight.

9. (Original) The heat-seal polymer film of claim 1, wherein the layer of film is a cast film.

10. (Original) The heat-seal polymer film of claim 1, wherein the layer of film is an oriented film.

11. (Previously Presented) The heat-seal polymer film of claim 1, wherein the random copolymer has a seal initiation temperature from 110° C to 125°C.

12.-13. (Canceled).

14. (Previously Presented) The heat-seal polymer film of claim 1, wherein the heat-seal film has an ultimate seal strength that is at least 30% greater than a heat-seal film prepared under similar conditions from a random copolymer of propylene and ethylene using a Ziegler-Natta catalyst useful in the polymerization of isotactic polypropylene.

15. (Original) The heat-seal polymer film of claim 1, wherein the heat-seal film is a cast film and provides a hot-tack seal strength above 0.4 N/cm at a temperature range of from 60°C to 130°C.

16. (Currently Amended) A multi-layer polymer film comprising a polyolefin core layer and at least one heat-seal layer, wherein said at least one heat-seal layer comprises a film that consists essentially of ~~formed from a~~ metallocene catalyzed[.], isotactic ethylene-propylene copolymer having a random comonomer distribution, the ethylene present in the ethylene-propylene copolymer is in an amount of from 1% to 15% by weight, wherein the ~~ethylene-propylene copolymer~~ at least one heat-seal layer has a seal initiation temperature of 80°C to 125° C defined at a seal strength of 200 g/inch ~~that is joined to the polyolefin core layer.~~

17. (Original) The multi-layer polymer film of claim 16, wherein the core layer and heat-seal layer are coextruded together.

18. (Original) The multi-layer polymer film of claim 16, wherein the heat-seal layer has a thickness that is less than the thickness of the core layer.

19. (Original) The multi-layer polymer film of claim 16, wherein the heat-seal layer has a thickness that is 20% or less than the thickness of the core layer.

20.-23. (Canceled).

24. (Previously Presented) The multi-layer polymer film of claim 16, wherein the heat-seal layer provides an ultimate seal strength that is at least 30% greater than a heat-seal layer prepared under similar conditions from a random copolymer of propylene and ethylene using a Ziegler-Natta catalyst useful in the polymerization of isotactic polypropylene.

25. (Previously Presented) The multi-layer polymer film of claim 16, wherein the random copolymer has a seal initiation of from 110°C to 125°C.

26.-27. (Canceled).

28. (Original) The multi-layer polymer film of claim 16, wherein the heat-seal layer is a cast film layer and provides a hot-tack seal strength above 0.4 N/cm at a temperature range of from 60°C to 130°C.

29. (Currently Amended) A material for use in heat-seal applications, said material comprises a film wherein said film consists essentially of ~~comprising~~ a metallocene catalyzed[.], isotactic ethylene-propylene copolymer having a random comonomer distribution, the ethylene present in the ethylene-propylene copolymer is in an amount of from 1% to about 15% by weight, wherein the ~~ethylene-propylene copolymer film~~ has a seal initiation temperature of 80°C to 125°C defined at a seal strength of 200 g/inch.

30. (Previously Presented) The material of claim 29, wherein the material provides a heat-seal film having an ultimate seal strength that is at least 30% greater than a heat-seal film prepared under similar conditions from a copolymer of propylene and ethylene using a Ziegler-Natta catalyst useful in the polymerization of isotactic polypropylene.

31.-32. (Canceled).

33. (Currently Amended) The material of claim 29, wherein the material provides a heat-seal film having a seal initiation temperature of from ~~80~~110°C to 125°C defined at a seal strength of 200 g/inch.

34. (Canceled).

35. (Original) The material of claim 29, wherein the material provides a heat-seal film having less than 3% haze.

36. (Original) The material of claim 29, wherein the material provides a heat-seal film having greater than 85% gloss at a 45° incident angle.

37. (Original) The material of claim 29, wherein the random copolymer has a xylene solubles content of less than 5% by weight.

38. (Previously Presented) The material of claim 29, wherein the random copolymer has a seal initiation of from 110°C to 125°C.

39.-40. (Canceled).

41. (Original) The material of claim 29, wherein the material provides a cast heat-seal film having a hot-tack seal strength above 0.4 N/cm at a temperature range of from 60°C to 130°C.

42. (Currently Amended) A method of forming a the heat-seal film of claim 1 comprising: providing a metallocene catalyzed, isotactic ethylene-propylene copolymer having a random comonomer distribution, the ethylene present in the ethylene-propylene copolymer ~~is~~ in an amount of from 1% to 15% by weight ~~wherein the ethylene-propylene copolymer has a seal initiation temperature of 80°C to 125°C~~ and forming the copolymer into a layer of film.